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Sequence Listing was accepted.
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Reviewer: markspencer
Timestamp: Thu Jul 26 15:18:11 EDT 2007
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Application No: 10575932   Version No: 1.0

Input Set:

Output Set:

Started: 2007-07-26 10:19:36.339
Finished: 2007-07-26 10:19:40.143
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 804 ms
Total Warnings: 11
Total Errors: 0
No. of SeqIDs Defined: 31
Actual SeqID Count: 31

Error code	Error Description
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<211> 862
<212> PRT
<213> Homo sapiens

<400> 1

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Lys Lys Asn Trp Phe Gly Pro Ser Pro Tyr Val Glu Val Thr Val Asp
        35                  40                  45
Gly Gln Ser Lys Lys Thr Glu Lys Cys Asn Asn Thr Asn Ser Pro Lys
    50                  55                  60
Trp Lys Gln Pro Leu Thr Val Ile Val Thr Pro Val Ser Lys Leu His
65                  70                  75                  80
Phe Arg Val Trp Ser His Gln Thr Leu Lys Ser Asp Val Leu Leu Gly
                85                  90                  95
Thr Ala Ala Leu Asp Ile Tyr Glu Thr Leu Lys Ser Asn Asn Met Lys
                100                 105                 110
Leu Glu Glu Val Val Val Thr Leu Gln Leu Gly Gly Asp Lys Glu Pro
        115                 120                 125
Thr Glu Thr Ile Gly Asp Leu Ser Ile Cys Leu Asp Gly Leu Gln Leu
    130                 135                 140
Glu Ser Glu Val Val Thr Asn Gly Glu Thr Thr Cys Ser Glu Ser Ala
145                 150                 155                 160
Ser Gln Asn Asp Asp Gly Ser Arg Ser Lys Asp Glu Thr Arg Val Ser
                165                 170                 175
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Thr Asn Gly Ser Asp Asp Pro Glu Asp Ala Gly Ala Gly Glu Asn Arg
            180                 185                 190
Arg Val Ser Gly Asn Asn Ser Pro Ser Leu Ser Asn Gly Gly Phe Lys
            195                 200                 205
Pro Ser Arg Pro Pro Arg Pro Ser Arg Pro Pro Pro Thr Pro Arg
    210                 215                 220
Arg Pro Ala Ser Val Asn Gly Ser Pro Ser Ala Thr Ser Glu Ser Asp
225                 230                 235                 240
Gly Ser Ser Thr Gly Ser Leu Pro Pro Thr Asn Thr Asn Thr Asn Thr
                245                 250                 255
Ser Glu Gly Ala Thr Ser Gly Leu Ile Ile Pro Leu Thr Ile Ser Gly
            260                 265                 270
Gly Ser Gly Pro Arg Pro Leu Asn Pro Val Thr Gln Ala Pro Leu Pro
            275                 280                 285
Pro Gly Trp Glu Gln Arg Val Asp Gln His Gly Arg Val Tyr Tyr Val
    290                 295                 300
Asp His Val Glu Lys Arg Thr Thr Trp Asp Arg Pro Glu Pro Leu Pro
305                 310                 315                 320
Pro Gly Trp Glu Arg Arg Val Asp Asn Met Gly Arg Ile Tyr Tyr Val
                325                 330                 335
Asp His Phe Thr Arg Thr Thr Thr Trp Gln Arg Pro Thr Leu Glu Ser
            340                 345                 350
Val Arg Asn Tyr Glu Gln Trp Gln Leu Gln Arg Ser Gln Leu Gln Gly
            355                 360                 365
Ala Met Gln Gln Phe Asn Gln Arg Phe Ile Tyr Gly Asn Gln Asp Leu
    370                 375                 380
Phe Ala Thr Ser Gln Ser Lys Glu Phe Asp Pro Leu Gly Pro Leu Pro
385                 390                 395                 400
Pro Gly Trp Glu Lys Arg Thr Asp Ser Asn Gly Arg Val Tyr Phe Val
                405                 410                 415
Asn His Asn Thr Arg Ile Thr Gln Trp Glu Asp Pro Arg Ser Gln Gly
            420                 425                 430
Gln Leu Asn Glu Lys Pro Leu Pro Glu Gly Trp Glu Met Arg Phe Thr
            435                 440                 445
Val Asp Gly Ile Pro Tyr Phe Val Asp His Asn Arg Arg Thr Thr Thr
    450                 455                 460
Tyr Ile Asp Pro Arg Thr Gly Lys Ser Ala Leu Asp Asn Gly Pro Gln
465                 470                 475                 480
Ile Ala Tyr Val Arg Asp Phe Lys Ala Lys Val Gln Tyr Phe Arg Phe
                485                 490                 495
Trp Cys Gln Gln Leu Ala Met Pro Gln His Ile Lys Ile Thr Val Thr
            500                 505                 510
Arg Lys Thr Leu Phe Glu Asp Ser Phe Gln Gln Ile Met Ser Phe Ser
            515                 520                 525
Pro Gln Asp Leu Arg Arg Arg Leu Trp Val Ile Phe Pro Gly Glu Glu
    530                 535                 540
Gly Leu Asp Tyr Gly Gly Val Ala Arg Glu Trp Phe Phe Leu Leu Ser
545                 550                 555                 560
His Glu Val Leu Asn Pro Met Tyr Cys Leu Phe Glu Tyr Ala Gly Lys
                565                 570                 575
Asp Asn Tyr Cys Leu Gln Ile Asn Pro Ala Ser Tyr Ile Asn Pro Asp
                580                 585                 590
His Leu Lys Tyr Phe Arg Phe Ile Gly Arg Phe Ile Ala Met Ala Leu
            595                 600                 605
Phe His Gly Lys Phe Ile Asp Thr Gly Phe Ser Leu Pro Phe Tyr Lys
    610                 615                 620
Arg Ile Leu Asn Lys Pro Val Gly Leu Lys Asp Leu Glu Ser Ile Asp
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            625                     630                     635                     640
Pro Glu Phe Tyr Asn Ser Leu Ile Trp Val Lys Glu Asn Asn Ile Glu
                        645                     650                     655
Glu Cys Asp Leu Glu Met Tyr Phe Ser Val Asp Lys Glu Ile Leu Gly
                    660                     665                     670
Glu Ile Lys Ser His Asp Leu Lys Pro Asn Gly Gly Asn Ile Leu Val
                675                     680                     685
Thr Glu Glu Asn Lys Glu Glu Tyr Ile Arg Met Val Ala Glu Trp Arg
            690                     695                     700
Leu Ser Arg Gly Val Glu Glu Gln Thr Gln Ala Phe Phe Glu Gly Phe
705                     710                     715                     720
Asn Glu Ile Leu Pro Gln Gln Tyr Leu Gln Tyr Phe Asp Ala Lys Glu
                        725                     730                     735
Leu Glu Val Leu Leu Cys Gly Met Gln Glu Ile Asp Leu Asn Asp Trp
                    740                     745                     750
Gln Arg His Ala Ile Tyr Arg His Tyr Ala Arg Thr Ser Lys Gln Ile
                755                     760                     765
Met Trp Phe Trp Gln Phe Val Lys Glu Ile Asp Asn Glu Lys Arg Met
            770                     775                     780
Arg Leu Leu Gln Phe Val Thr Gly Thr Cys Arg Leu Pro Val Gly Gly
785                     790                     795                     800
Phe Ala Asp Leu Met Gly Ser Asn Gly Pro Gln Lys Phe Cys Ile Glu
                        805                     810                     815
Lys Val Gly Lys Glu Asn Trp Leu Pro Arg Ser His Thr Cys Phe Asn
                    820                     825                     830
Arg Leu Asp Leu Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys Glu Lys
                835                     840                     845
Leu Leu Phe Ala Ile Glu Glu Thr Glu Gly Phe Gly Gln Glu
            850                     855                     860


<210> 2
<211> 854
<212> PRT
<213> Mus musculus

<400> 2
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                    20                      25                      30
Val Glu Val Thr Val Asp Gly Gln Ser Lys Lys Thr Glu Lys Cys Asn
                35                      40                      45
Asn Thr Asn Ser Pro Lys Trp Lys Gln Pro Leu Thr Val Ile Val Thr
            50                      55                      60
Pro Thr Ser Lys Leu Cys Phe Arg Val Trp Ser His Gln Thr Leu Lys
65                      70                      75                      80
Ser Asp Val Leu Leu Gly Thr Ala Gly Leu Asp Ile Tyr Glu Thr Leu
                        85                      90                      95
Lys Ser Asn Asn Met Lys Leu Glu Glu Val Val Met Thr Leu Gln Leu
                    100                     105                     110
Val Gly Asp Lys Glu Pro Thr Glu Thr Met Gly Asp Leu Ser Val Cys
                115                     120                     125
Leu Asp Gly Leu Gln Val Glu Ala Glu Val Val Thr Asn Gly Glu Thr
            130                     135                     140
Ser Cys Ser Glu Ser Thr Thr Gln Asn Asp Asp Gly Cys Arg Thr Arg
145                     150                     155                     160
Asp Asp Thr Arg Val Ser Thr Asn Gly Ser Glu Asp Pro Glu Val Ala
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                   165                 170                 175
Ala Ser Gly Glu Asn Lys Arg Ala Asn Gly Asn Asn Ser Pro Ser Leu
            180                 185                 190
Ser Asn Gly Gly Phe Lys Pro Ser Arg Pro Pro Arg Pro Ser Arg Pro
            195                 200                 205
Pro Pro Pro Thr Pro Arg Arg Pro Ala Ser Val Asn Gly Ser Pro Ser
            210                 215                 220
Thr Asn Ser Asp Ser Asp Gly Ser Ser Thr Gly Ser Leu Pro Pro Thr
225                 230                 235                 240
Asn Thr Asn Val Asn Thr Ser Thr Ser Glu Gly Ala Thr Ser Gly Leu
                   245                 250                 255
Ile Ile Pro Leu Thr Ile Ser Gly Gly Ser Gly Pro Arg Pro Leu Asn
            260                 265                 270
Thr Val Ser Gln Ala Pro Leu Pro Pro Gly Trp Glu Gln Arg Val Asp
            275                 280                 285
Gln His Gly Arg Val Tyr Tyr Val Asp His Val Glu Lys Arg Thr Thr
            290                 295                 300
Trp Asp Arg Pro Glu Pro Leu Pro Pro Gly Trp Glu Arg Arg Val Asp
305                 310                 315                 320
Asn Met Gly Arg Ile Tyr Tyr Val Asp His Phe Thr Arg Thr Thr Thr
                   325                 330                 335
Trp Gln Arg Pro Thr Leu Glu Ser Val Arg Asn Tyr Glu Gln Trp Gln
            340                 345                 350
Leu Gln Arg Ser Gln Leu Gln Gly Ala Met Gln Gln Phe Asn Gln Arg
            355                 360                 365
Phe Ile Tyr Gly Asn Gln Asp Leu Phe Ala Thr Ser Gln Asn Lys Glu
            370                 375                 380
Phe Asp Pro Leu Gly Pro Leu Pro Pro Gly Trp Glu Lys Arg Thr Asp
385                 390                 395                 400
Ser Asn Gly Arg Val Tyr Phe Val Asn His Asn Thr Arg Ile Thr Gln
                   405                 410                 415
Trp Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu Lys Pro Leu Pro
            420                 425                 430
Glu Gly Trp Glu Met Arg Phe Thr Val Asp Gly Ile Pro Tyr Phe Val
            435                 440                 445
Asp His Asn Arg Arg Ala Thr Thr Tyr Ile Asp Pro Arg Thr Gly Lys
            450                 455                 460
Ser Ala Leu Asp Asn Gly Pro Gln Ile Ala Tyr Val Arg Asp Phe Lys
465                 470                 475                 480
Ala Lys Val Gln Tyr Phe Arg Phe Trp Cys Gln Gln Leu Ala Met Pro
            485                 490                 495
Gln His Ile Lys Ile Thr Val Thr Arg Lys Thr Leu Phe Glu Asp Ser
            500                 505                 510
Phe Gln Gln Ile Met Ser Phe Ser Pro Gln Asp Leu Arg Arg Arg Leu
            515                 520                 525
Trp Val Ile Phe Pro Gly Glu Glu Gly Leu Asp Tyr Gly Gly Val Ala
            530                 535                 540
Arg Glu Trp Phe Phe Leu Leu Ser His Glu Val Leu Asn Pro Met Tyr
545                 550                 555                 560
Cys Leu Phe Glu Tyr Ala Gly Lys Asp Asn Tyr Cys Leu Gln Ile Asn
                   565                 570                 575
Pro Ala Ser Tyr Ile Asn Pro Asp His Leu Lys Tyr Phe Arg Phe Ile
            580                 585                 590
Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys Phe Ile Asp Thr
            595                 600                 605
Gly Phe Ser Leu Pro Phe Tyr Lys Arg Ile Leu Asn Lys Pro Val Gly
            610                 615                 620
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Leu Lys Asp Leu Glu Ser Ile Asp Pro Glu Phe Tyr Asn Ser Leu Ile
625   630   635   640
Trp Val Lys Glu Asn Asn Ile Glu Glu Cys Gly Leu Glu Met Tyr Phe
                645   650   655
Ser Val Asp Lys Glu Ile Leu Gly Glu Ile Lys Ser His Asp Leu Lys
                660   665   670
Pro Asn Gly Gly Asn Ile Leu Val Thr Glu Glu Asn Lys Glu Glu Tyr
            675   680   685
Ile Arg Met Val Ala Glu Trp Arg Leu Ser Arg Gly Val Glu Glu Gln
        690   695   700
Thr Gln Ala Phe Phe Glu Gly Phe Asn Glu Ile Leu Pro Gln Gln Tyr
705   710   715   720
Leu Gln Tyr Phe Asp Ala Lys Glu Leu Glu Val Leu Leu Cys Gly Met
                725   730   735
Gln Glu Ile Asp Leu Asn Asp Trp Gln Arg His Ala Ile Tyr Arg His
                740   745   750
Tyr Thr Arg Thr Ser Lys Gln Ile Met Trp Phe Trp Gln Phe Val Lys
            755   760   765
Glu Ile Asp Asn Glu Lys Arg Met Arg Leu Leu Gln Phe Val Thr Gly
        770   775   780
Thr Cys Arg Leu Pro Val Gly Gly Phe Ala Asp Leu Met Gly Ser Asn
785   790   795   800
Gly Pro Gln Lys Phe Cys Ile Glu Lys Val Gly Lys Glu Asn Trp Leu
                805   810   815
Pro Arg Ser His Thr Cys Phe Asn Arg Leu Asp Leu Pro Pro Tyr Lys
                820   825   830
Ser Tyr Glu Gln Leu Lys Glu Lys Leu Leu Phe Ala Ile Glu Glu Thr
            835   840   845
Glu Gly Phe Gly Gln Glu
        850

<210> 3
<211> 900
<212> PRT
<213> Homo sapiens

<400> 3
Met Ala Thr Cys Ala Val Glu Val Phe Gly Leu Leu Glu Asp Glu Glu
 1   5   10   15
Asn Ser Arg Ile Val Arg Val Arg Val Ile Ala Gly Ile Gly Leu Ala
                20   25   30
Lys Lys Asp Ile Leu Gly Ala Ser Asp Pro Tyr Val Arg Val Thr Leu
            35   40   45
Tyr Asp Pro Met Asn Gly Val Leu Thr Ser Val Gln Thr Lys Thr Ile
        50   55   60
Lys Lys Ser Leu Asn Pro Lys Trp Asn Glu Glu Ile Leu Phe Arg Val
65   70   75   80
His Pro Gln Gln His Arg Leu Leu Phe Glu Val Phe Asp Glu Asn Arg
                85   90   95
Leu Thr Arg Asp Asp Phe Leu Gly Gln Val Asp Val Pro Leu Tyr Pro
            100   105   110
Leu Pro Thr Glu Asn Pro Arg Leu Glu Arg Pro Tyr Thr Phe Lys Asp
            115   120   125
Phe Val Leu His Pro Arg Ser His Lys Ser Arg Val Lys Gly Tyr Leu
        130   135   140
Arg Leu Lys Met Thr Tyr Leu Pro Lys Thr Ser Gly Ser Glu Asp Asp
145   150   155   160

```
Asn Ala Glu Gln Ala Glu Glu Leu Glu Pro Gly Trp Val Val Leu Asp
                165                     170                 175
Gln Pro Asp Ala Ala Cys His Leu Gln Gln Gln Gln Glu Pro Ser Pro
                180                     185                 190
Leu Pro Pro Gly Trp Glu Glu Arg Gln Asp Ile Leu Gly Arg Thr Tyr
            195                     200                 205
Tyr Val Asn His Glu Ser Arg Arg Thr Gln Trp Lys Arg Pro Thr Pro
        210                     215                 220
Gln Asp Asn Leu Thr Asp Ala Glu Asn Gly Asn Ile Gln Leu Gln Ala
225                     230                 235                 240
Gln Arg Ala Phe Thr Thr Arg Arg Gln Ile Ser Glu Glu Thr Glu Ser
                245                     250                 255
Val Asp Asn Arg Glu Ser Ser Glu Asn Trp Glu Ile Ile Arg Glu Asp
                260                     265                 270
Glu Ala Thr Met Tyr Ser Asn Gln Ala Phe Pro Ser Pro Pro Pro Ser
            275                     280                 285
Ser Asn Leu Asp Val Pro Thr His Leu Ala Glu Glu Leu Asn Ala Arg
        290                     295                 300
Leu Thr Ile Phe Gly Asn Ser Ala Val Ser Gln Pro Ala Ser Ser Ser
305                     310                 315                 320
Asn His Ser Ser Arg Arg Gly Ser Leu Gln Ala Tyr Thr Phe Glu Glu
            325                     330                 335
Gln Pro Thr Leu Pro Val Leu Leu Pro Thr Ser Ser Gly Leu Pro Pro
            340                     345                 350
Gly Trp Glu Glu Lys Gln Asp Glu Arg Gly Arg Ser Tyr Tyr Val Asp
        355                     360                 365
His Asn Ser Arg Thr Thr Thr Trp Thr Lys Pro Thr Val Gln Ala Thr
        370                     375                 380
Val Glu Thr Ser Gln Leu Thr Ser Ser Gln Ser Ser Ala Gly Pro Gln
385                     390                 395                 400
Ser Gln Ala Ser Thr Ser Asp Ser Gly Gln Gln Val Thr Gln Pro Ser
                405                     410                 415
Glu Ile Glu Gln Gly Phe Leu Pro Lys Gly Trp Glu Val Arg His Ala
            420                     425                 430
Pro Asn Gly Arg Pro Phe Phe Ile Asp His Asn Thr Lys Thr Thr Thr
            435                     440                 445
Trp Glu Asp Pro Arg Leu Lys Ile Pro Ala His Leu Arg Gly Lys Thr
        450                     455                 460
Ser Leu Asp Thr Ser Asn Asp Leu Gly Pro Leu Pro Pro Gly Trp Glu
465                     470                 475                 480
Glu Arg Thr His Thr Asp Gly Arg Ile Phe Tyr Ile Asn His Asn Ile
                485                     490                 495
Lys Arg Thr Gln Trp Glu Asp Pro Arg Leu Glu Asn Val Ala Ile Thr
            500                     505                 510
Gly Pro Ala Val Pro Tyr Ser Arg Asp Tyr Lys Arg Lys Tyr Glu Phe
            515                     520                 525
Phe Arg Arg Lys Leu Lys Lys Gln Asn Asp Ile Pro Asn Lys Phe Glu
        530                     535                 540
Met Lys Leu Arg Arg Ala
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